IN THE CLAIMS:

The following listing of claims will replace all prior versions, and listings, of the claims in the application:

1. (Currently amended) A method of reducing the peak-to-average power ratio (PAPR) of a modulated baseband signal, wherein the baseband signal is constituted by a waveform function modulated by information-carrying symbols transmitted in parallel, the method comprising the <u>non-iterative</u> steps of:

detecting peaks in the modulated baseband signal that exceed a threshold (C), and generating a pulse sequence signal (p[m]) therefrom; and

applying a pulse sequence shaping to filter the pulse sequence signal for generating a peak-cancellation signal (c[m]); wherein the pulse sequence shaping is designed such that its pass-band is limited to a frequency-domain gap between the edge of an information-carrying frequency bandwidth of the modulated baseband signal and an edge of a frequency band for the baseband signal defined by a spectral mask specifying a maximum tolerable out-of-band emission; and

subtracting the peak-cancellation signal (c[m]) from the modulated baseband signal to produce a reduced PAPR modulated baseband signal (ŝ'[m]).

- 2. (Cancelled)
- 3. (Previously presented) The method of Claim 1, further comprising oversampling the modulated baseband signal prior to the peak detecting step.
 - 4-8. (Cancelled)
- 9. (Previously presented) The method of Claim 3, further comprising subtracting the peak-cancellation signal from the modulated baseband signal to produce a reduced-PAPR modulated baseband signal (\$'[m]).

10. (Previously presented) A transmitter comprising:

a baseband signal generator operable to generate a digital baseband signal (§[n]) from an input data stream;

a digital-to-analogue converter operable to convert the digital baseband signal into an analogue baseband signal (s[t]) prior to output by a transmitter stage [TX];

an oversampling filter arranged between the baseband signal generator and digital-to-analogue converter operable to oversample the digital baseband signal to generate an oversampled digital baseband signal (\$[m]);

a signal divider operable to split the oversampled digital baseband signal into first and second parts;

a peak detector arranged to receive the first part of the oversampled digital baseband signal as input and operable to output a pulse sequence signal (p[m]) containing a pulse for each peak in the oversampled digital baseband signal that exceeds a threshold level (C);

a pulse shaping filter operable to receive the pulse sequence signal and convert it into a filtered clipping signal (c[m]) having a pass-band limited to a frequency-domain gap between an edge of an information-carrying frequency bandwidth of the modulated baseband signal and an edge of a frequency band for the baseband signal defined by a spectral mask specifying a maximum tolerable out-of-band emission; and

a signal combiner operable to subtract the filtered clipping signal from the second part of the oversampled digital baseband signal to produce a digital baseband signal (\$'[m]) with reduced PAPR for input to the digital-to-analogue converter.

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- 11. (Previously presented) The transmitter of Claim 10, wherein the peak detector is further operable to output the pulse sequence signal comprising pulses having a magnitude corresponding to an amount by which the each peak exceeds the threshold level (C).
- 12. (Previously presented) The transmitter of Claim 10, wherein the pulse shaping filter comprises an FIR filter.
- 13. (Previously presented) The transmitter of Claim 11, wherein the pulse shaping filter comprises an FIR filter.